

Department of Energy

CORPORATE NETWORK (DOEnet)



Office of the Associate CIO for Operations

Site Coordinating Committee Video Teleconference
August 9, 2000

Agenda



⌘ Network Performance

- ☒ Outages

- ☒ Action Plan

⌘ Implementation Status

⌘ Network Operations

⌘ Network Security

⌘ Open Discussion/Next Meeting

Outages



⌘ July Outages

- ☒ 10 Circuit or PVC outages
- ☒ 56+ hours of site outages
- ☒ SLA not met
- ☒ Escalated within Sprint & GSA

Outages – Action Plan



Overview of UBR Proposal

- ☒ Backup PVCs will provide connectivity to all sites (except hub site) in the event of a hub site outage
- ☒ Orders have been placed with Sprint to provide backup PVCs to each site
- ☒ Anticipated completion date is August 25
- ☒ Sprint will provide at no cost to DOE

Implementation Status

Initial Connectivity



- ⌘ Carlsbad Area Office - US West / Qwest has determined funds are not available to complete buildout. Exploring alternative connectivity options.

Implementation Status - DS-3 Circuits Upgrades



- ⌘ Savannah River - Conversion from T-1 connectivity to DS-3 completed 7/27/00.
- ⌘ Idaho Operations Office - Delivery of DS-3 Circuit planned for October 2000.
- ⌘ NREL/Golden - Continuing to resolve site-related construction issues. No firm order commitment date on delivery of DS-3 circuit.

Implementation Status - DS-3 Circuits Upgrades



- ⌘ Ohio Field Office - Construction work is scheduled to begin the week of August 7. No firm order commitment date on delivery of the DS-3 circuit.
- ⌘ Richland Operations Office - DS-3 Circuit delivered and tested. Cutover being coordinated and scheduled with the site.

Help Desk Activities

July 2000 – # Tickets

- ☒ 10 Circuit Outages/1 - Child
- ☒ 4 Request
- ☒ 3 HQ Configuration - Router
- ☒ 3 Site Configuration
- ☒ 3 Power
- ☒ 2 Information/Education
- ☒ 2 Site Hardware
- ☒ 3 Other / NTF

Network Security



- ⌘ Corrective Action Plan in response to the Unclassified Cyber Security Review of the Department of Energy was completed July 31, 2000
- ⌘ DODNET Security Enhancements scheduled to be completed by October 31, 2000.

Network Security Objectives



- ⌘ Limit access control to site systems via DOEnet
- ⌘ Protection of data in transit
- ⌘ Provision of service
- ⌘ Maintain the security posture

Network Security Enhancements



- ⌘ Provide network perimeter protection
- ⌘ Implement network intrusion detection capability at each site
- ⌘ Increased use of features in existing equipment
 - ☐ separation of traffic by IP tunneling of PVCs configuration
 - ☐ network access list

Network Security Implementation Process



⌘ Product Evaluation/Selection

- ☑ Security Features
- ☑ Supportability/Maintainability
- ☑ Application Support

⌘ Specific site requirements (IPX, racks, etc)

⌘ Deployment Schedule

General Information



⌘ Request for Connectivity

☒ Bonneville Power Administration

- ☒ Compliance with Connection Requirements OK
- ☒ Will be connected in conjunction with Richland DS-3 upgrade

☒ Yucca Mountain

- ☒ Security Implementation plans will isolate site from Las Vegas LAN
- ☒ Anticipate completion by 10-30-00

Next Meeting(s)



SCC Video Teleconference, September
13, 2000, 3:00 p.m. (E.T.)